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Informatics in Control, Automation and Robotics

18th International Conference, ICINCO 2021 Lieusaint – Paris, France, July 6–8, 2021, Revised Selected Papers

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Innovations in the Industrial Internet of Things (IIoT) and Smart Factory Goundar, Sam,Avanija, J.,Sunitha, Gurram,Madhavi, K. Reddy,Bhushan, S. Bharath,2021-01-22 Industrial internet of things IIoT is changing the face of industry by completely redefining the way stakeholders enterprises and machines connect and interact with each other in the industrial digital ecosystem Smart and connected factories in which all the machinery transmits real time data enable industrial data analytics for improving operational efficiency productivity and industrial processes thus creating new business opportunities asset utilization and connected services IIoT leads factories to step out of legacy environments and arcane processes towards open digital industrial ecosystems Innovations in the Industrial Internet of Things IIoT and Smart Factory is a pivotal reference source that discusses the development of models and algorithms for predictive control of industrial operations and focuses on optimization of industrial operational efficiency rationalization automation and maintenance While highlighting topics such as artificial intelligence cyber security and data collection this book is ideally designed for engineers manufacturers industrialists managers IT consultants practitioners students researchers and industrial industry professionals *Cyber Security of Industrial Control Systems in the Future Internet Environment* Stojanović, Mirjana D.,Boštjančič Rakas, Slavica V.,2020-02-21 In today s modernized market many fields are utilizing internet technologies in their everyday methods of operation The industrial sector is no different as these technological solutions have provided several benefits including reduction of costs scalability and efficiency improvements Despite this cyber security remains a crucial risk factor in industrial control systems The same public and corporate solutions do not apply to this specific district because these security issues are more complex and intensive Research is needed that explores new risk assessment methods and security mechanisms that professionals can apply to their modern technological procedures Cyber Security of Industrial Control Systems in the Future Internet Environment is a pivotal reference source that provides vital research on current security risks in critical infrastructure schemes with the implementation of information and communication technologies While highlighting topics such as intrusion detection systems forensic challenges and smart grids this publication explores specific security solutions within industrial sectors that have begun applying internet technologies to their current methods of operation This book is ideally designed for researchers system engineers managers networkers IT professionals analysts academicians and students seeking a better understanding of the key issues within securing industrial control systems that utilize internet technologies *Innovative Intelligent Industrial Production and Logistics* Alexander Smirnov,Hervé Panetto,Kurosh Madani,2023-07-06 This volume includes extended and revised versions of a set of selected papers from the First International Conference on Innovative Intelligent Industrial Production and Logistics IN4PL 2020 held as virtual event in November 4 6 2020 and Second International Conference on Innovative Intelligent Industrial Production and Logistics IN4PL 2021 held as virtual event in October 25 27 2021 The 9 full

papers included in this book were carefully reviewed and selected from 44 submissions They were organized in topical sections as follows on kernel search based gaussian process anomaly detection general architecture framework and general modelling framework   Transforming the Service Sector With New Technology Rana, Varinder Singh,Bathla, Gaurav,Raina, Ashish,Chhabra, Divoy,2025-05-07 Technology can impact the service sector in a variety of ways It can be used to transform a number of service related businesses including hospitality tourism banking healthcare and others Businesses navigating the rapidly changing landscape of services and technology can benefit from it by using emerging technology to create new services or improve existing ones With the rapid rise in technology the regulatory landscape is changing requiring additional changes to ensure responsible innovation and protect consumers interests Transforming the Service Sector with New Technology strives to stimulate innovation aid in strategic decision making and benefit service industries as a whole It provides valuable information about how technology is impacting and transforming the services sector and insights in responsibly regulating it Covering topics such as customer engagement recovery strategies and technology driven product placement this book is an excellent resource for industry decision makers Industrialists hospitality professionals entrepreneurs policymakers scholars academicians professionals and more   New Approaches in Automation and Robotics Harald Aschemann,2008-05-01 The book New Approaches in Automation and Robotics offers in 22 chapters a collection of recent developments in automation robotics as well as control theory It is dedicated to researchers in science and industry students and practicing engineers who wish to update and enhance their knowledge on modern methods and innovative applications The authors and editor of this book wish to motivate people especially under graduate students to get involved with the interesting field of robotics and mechatronics We hope that the ideas and concepts presented in this book are useful for your own work and could contribute to problem solving in similar applications as well It is clear however that the wide area of automation and robotics can only be highlighted at several spots but not completely covered by a single book

    Mobile Robots Navigation Luis Payá,Reinoso Garcia,2020-11-13 The presence of mobile robots in diverse scenarios is considerably increasing to perform a variety of tasks Among them many developments have occurred in the fields of ground underwater and flying robotics Independent of the environment where they move navigation is a fundamental ability of mobile robots so that they can autonomously complete high level tasks This problem can be efficiently addressed through the following actions First it is necessary to perceive the environment in which the robot has to move and extract some relevant information mapping problem Second the robot must be able to estimate its position and orientation within this environment localization problem With this information a trajectory toward the target points must be planned path planning and the vehicle must be reactively guided along this trajectory considering either possible changes or interactions with the environment or with the user control Given this information this book introduces current frameworks in these fields mapping localization path planning and control and in general approaches to any problem related to the navigation of mobile robots

such as odometry exploration obstacle avoidance and simulation   **Advanced Manufacturing and Automation V** K. Wang,Y. Wang,J.O. Strandhagen,T. Yu,2016-02-03 Advanced Manufacturing and Automation V contains the proceedings of the 5th International Workshop of Advanced Manufacturing and Automation IWAMA 2015 This meeting continues the success of this important international workshop series and disseminates the works of academic and industrial experts from around the world in the areas of advanced manufacturing and automation The disciplines of manufacturing and automation have attained paramount importance and are vital factors for the maintenance and improvement of the economy of a nation and the quality of life Manufacturing and automation are advancing at a rapid pace and new technologies are constantly emerging in the fields The challenges faced by today s engineers are forcing them to keep on top of the emerging trends through continuous research and development The papers comprising these proceedings cover various topics including Robotics and automation Computational intelligence Design and optimization Product life cycle management Integration of CAD CAPP CAM CIMS Advanced manufacturing systems Manufacturing operations management Knowledge based manufacturing Manufacturing quality control and management Sustainable production Diagnosis and prognosis of machines Lean and agile manufacturing Virtual and grid manufacturing Resource and asset management Logistics and supply chain management RFID applications Predictive maintenance Reliability and maintainability in manufacturing Project management Renewable energy development Environment protection Intelligent detection   **Healthcare Paradigms in the Internet of Things Ecosystem** Valentina Emilia Balas,Souvik Pal,2020-11-07 Health Care Paradigms in the Internet of Things Ecosystem brings all IoT enabled health care related technologies into a single platform so that undergraduate and postgraduate students researchers academicians and industry leaders can easily understand IoT based healthcare systems The book uses data and network engineering and intelligent decision support system by design principles to design a reliable IoT enabled health care ecosystem and to implement cyber physical pervasive infrastructure solutions It takes the reader on a journey that begins with understanding the healthcare monitoring paradigm in IoT enabled technologies and how it can be applied in various aspects In addition the book walks readers through real time challenges and presents a guide on how to build a safe infrastructure for IoT based health care It also helps researchers and practitioners understand the e health care architecture through IoT and the state of the art in IoT countermeasures Readers will find this to be a comprehensive discussion on functional frameworks for IoT based healthcare systems intelligent medicine RFID technology HMI Cognitive Interpretation Brain Computer Interface Remote Health Monitoring systems wearable sensors WBAN and security and privacy issues in IoT based health care monitoring systems Presents the complete functional framework workflow in IoT enabled healthcare technologies Explains concepts of location aware protocols and decisive mobility in IoT healthcare Provides complete coverage of intelligent data processing and wearable sensor technologies in IoT enabled healthcare Explores the Human Machine Interface and its implications in patient care systems in IoT healthcare Explores security and

privacy issues and challenges related to data intensive technologies in healthcare based Internet of Things **Intelligent Control in Energy Systems** Anastasios Dounis,2019-08-26 The editors of this Special Issue titled Intelligent Control in Energy Systems have attempted to create a book containing original technical articles addressing various elements of intelligent control in energy systems In response to our call for papers we received 60 submissions Of those submissions 27 were published and 33 were rejected In this book we offer the 27 accepted technical articles as well as one editorial Authors from 15 countries China Netherlands Spain Tunisia United Sates of America Korea Brazil Egypt Denmark Indonesia Oman Canada Algeria Mexico and the Czech Republic elaborate on several aspects of intelligent control in energy systems The book covers a broad range of topics including fuzzy PID in automotive fuel cell and MPPT tracking neural networks for fuel cell control and dynamic optimization of energy management adaptive control on power systems hierarchical Petri Nets in microgrid management model predictive control for electric vehicle battery and frequency regulation in HVAC systems deep learning for power consumption forecasting decision trees for wind systems risk analysis for demand side management finite state automata for HVAC control robust synthesis for microgrids and neuro fuzzy systems in energy storage **Integrating Intelligence and Sustainability in Supply Chains** Bentalha, Badr,Hmioui, Aziz,Alla, Lhoussaine,2023-10-04 Integrating Intelligence and Sustainability in Supply Chains is a comprehensive research guide that delves into the realm of sustainable and smart supply chains With a focus on bridging the gap between intelligence and sustainability this book provides a valuable resource for graduate students in business management industrial engineering and industrial ecology It serves as a unifying platform for researchers across various domains including operations management industrial ecology industrial strategy risk management and life cycle assessment who are passionate about sustainable and smart supply chains This book offers a wealth of groundbreaking insights from renowned scholars and field experts It serves as a theoretical and conceptual foundation for environmental researchers seeking a business policy or industry perspective By addressing the key issues at the intersection of operations management and environmental and social responsibility the book presents a novel approach to mitigating negative impacts and aligning logistics with sustainability and digitalization requirements Structured in a modular format this book allows readers to explore specific current topics relevant to their interests It covers a wide range of subjects such as measuring environmental impacts transforming supply chains to meet sustainability challenges business models for sustainable logistics and integrative business strategies Furthermore the book addresses emerging technologies like big data analytics artificial intelligence and the Internet of Things IoT exploring their applications in supply chain management Cyber-Assurance for the Internet of Things Tyson T. Brooks,2017-01-04 Presents an Cyber Assurance approach to the Internet of Things IoT This book discusses the cyber assurance needs of the IoT environment highlighting key information assurance IA IoT issues and identifying the associated security implications Through contributions from cyber assurance IA information security and IoT industry practitioners and experts the text covers fundamental and advanced

concepts necessary to grasp current IA issues challenges and solutions for the IoT The future trends in IoT infrastructures architectures and applications are also examined Other topics discussed include the IA protection of IoT systems and information being stored processed or transmitted from unauthorized access or modification of machine 2 machine M2M devices radio frequency identification RFID networks wireless sensor networks smart grids and supervisory control and data acquisition SCADA systems The book also discusses IA measures necessary to detect protect and defend IoT information and networks systems to ensure their availability integrity authentication confidentially and non repudiation Discusses current research and emerging trends in IA theory applications architecture and information security in the IoT based on theoretical aspects and studies of practical applications Aids readers in understanding how to design and build cyber assurance into the IoT Exposes engineers and designers to new strategies and emerging standards and promotes active development of cyber assurance Covers challenging issues as well as potential solutions encouraging discussion and debate amongst those in the field Cyber Assurance for the Internet of Things is written for researchers and professionals working in the field of wireless technologies information security architecture and security system design This book will also serve as a reference for professors and students involved in IA and IoT networking Tyson T Brooks is an Adjunct Professor in the School of Information Studies at Syracuse University he also works with the Center for Information and Systems Assurance and Trust CISAT at Syracuse University and is an information security technologist and science practitioner Dr Brooks is the founder Editor in Chief of the International Journal of Internet of Things and Cyber Assurance an associate editor for the Journal of Enterprise Architecture the International Journal of Cloud Computing and Services Science and the International Journal of Information and Network Security _Advances in Edge Computing: Massive Parallel Processing and Applications_ F. Xhafa,A.K. Sangaiah,2020-03-10 The rapid advance of Internet of Things IoT technologies has resulted in the number of IoT connected devices growing exponentially with billions of connected devices worldwide While this development brings with it great opportunities for many fields of science engineering business and everyday life it also presents challenges such as an architectural bottleneck with a very large number of IoT devices connected to a rather small number of servers in Cloud data centers and the problem of data deluge Edge computing aims to alleviate the computational burden of the IoT for the Cloud by pushing some of the computations and logics of processing from the Cloud to the Edge of the Internet It is becoming commonplace to allocate tasks and applications such as data filtering classification semantic enrichment and data aggregation to this layer but to prevent this new layer from itself becoming another bottleneck for the whole computing stack from IoT to the Cloud the Edge computing layer needs to be capable of implementing massively parallel and distributed algorithms efficiently This book Advances in Edge Computing Massive Parallel Processing and Applications addresses these challenges in 11 chapters Subjects covered include Fog storage software architecture IoT based crowdsourcing the industrial Internet of Things privacy issues smart home management in the Cloud and the Fog and a cloud robotic solution to assist

medical applications Providing an overview of developments in the field the book will be of interest to all those working with the Internet of Things and Edge computing   *Semantic Web* Gang Wu,2010-01-01 Having lived with the World Wide Web for twenty years surfing the Web becomes a way of our life that cannot be separated From latest news photo sharing social activities to research collaborations and even commercial activities and government affairs almost all kinds of information are available and processible via the Web While people are appreciating the great invention the father of the Web Sir Tim Berners Lee has started the plan for the next generation of the Web the Semantic Web Unlike the Web that was originally designed for reading the Semantic Web aims at a more intelligent Web severing machines as well as people The idea behind it is simple machines can automatically process or understand the information if explicit meanings are given to it In this way it facilitates sharing and reuse of data across applications enterprises and communities According to the organisation of the book the intended readers may come from two groups i e those whose interests include Semantic Web and want to catch on the state of the art research progress in this field and those who urgently need or just intend to seek help from the Semantic Web In this sense readers are not limited to the computer science Everyone is welcome to find their possible intersection of the Semantic Web   *Multi-Robot Systems* ,2023-12-13 Robotics is an important part of modern engineering involving electricity and electronics computers mathematics and mechanism design In recent years in addition to serial robots multi robot systems have begun to attract the attention of students academics and industry workers This interest has directly impacted the development of novel theoretical research areas and products This book explores new developments in multi robot systems such as trajectory planning control algorithms and programming   *Intrinsic motivations and open-ended development in animals, humans, and robots* Gianluca Baldassarre,Tom Stafford, Marco Mirolli,Peter Redgrave,Richard Michael Ryan,Andrew Barto,2015-02-10 The aim of this Research Topic for Frontiers in Psychology under the section of Cognitive Science and Frontiers in Neurorobotics is to present state of the art research whether theoretical empirical or computational investigations on open ended development driven by intrinsic motivations The topic will address questions such as How do motivations drive learning How are complex skills built up from a foundation of simpler competencies What are the neural and computational bases for intrinsically motivated learning What is the contribution of intrinsic motivations to wider cognition Autonomous development and lifelong open ended learning are hallmarks of intelligence Higher mammals and especially humans engage in activities that do not appear to directly serve the goals of survival reproduction or material advantage Rather a large part of their activity is intrinsically motivated behavior driven by curiosity play interest in novel stimuli and surprising events autonomous goal setting and the pleasure of acquiring new competencies This allows the cumulative acquisition of knowledge and skills that can later be used to accomplish fitness enhancing goals Intrinsic motivations continue during adulthood and in humans artistic creativity scientific discovery and subjective well being owe much to them The study of intrinsically motivated behavior has a long history in psychological and ethological research which

is now being reinvigorated by perspectives from neuroscience artificial intelligence and computer science For example recent neuroscientific research is discovering how neuromodulators like dopamine and noradrenaline relate not only to extrinsic rewards but also to novel and surprising events how brain areas such as the superior colliculus and the hippocampus are involved in the perception and processing of events novel stimuli and novel associations of stimuli and how violations of predictions and expectations influence learning and motivation Computational approaches are characterizing the space of possible reinforcement learning algorithms and their augmentation by intrinsic reinforcements of different kinds Research in robotics and machine learning is yielding systems with increasing autonomy and capacity for self improvement artificial systems with motivations that are similar to those of real organisms and support prolonged autonomous learning Computational research on intrinsic motivation is being complemented by and closely interacting with research that aims to build hierarchical architectures capable of acquiring storing and exploiting the knowledge and skills acquired through intrinsically motivated learning Now is an important moment in the study of intrinsically motivated open ended development requiring contributions and integration across a large number of fields within the cognitive sciences This Research Topic aims to contribute to this effort by welcoming papers carried out with ethological psychological neuroscientific and computational approaches as well as research that cuts across disciplines and approaches **Encyclopedia of Information Science and Technology, Third Edition** Khosrow-Pour, D.B.A., Mehdi,2014-07-31 This 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology Provided by publisher Handbook of Research on Technoself: Identity in a Technological Society Luppicini, Rocci,2012-10-31 This book provides insights to better enhance the understanding of technology s widespread intertwinement with human identity within an advancing technological society Provided by publisher **Economics and Politics in the Robotic Age** Qing-Ping Ma,2024-01-03 This book shows that the rapid development of artificial intelligence AI and robotics is a natural consequence of the development of human society It examines the history of production from the Stone Age to the present progressing from the manual age to the machine age and then to the robotic age From the perspective of economics and human physiology this book explains how AI and robotics will reshape the economy and society and how individuals firms and governments should prepare for the advent of the robotic age Computational Sensor Networks Thomas Henderson,2009-04-21 A model based approach to the design and implementation of Computational Sensor Networks CSNs is proposed This high level paradigm for the development and application of sensor device networks provides a strong scientific computing foundation as well as the basis for robust software engineering practice The three major components of this approach include 1 models of phenomena to be monitored 2 models of sensors and actuators and 3 models of the sensor network computation We propose guiding principles to identify

the state or structure of the phenomenon being sensed or of the sensor network itself This is called computational modeling These methods are then incorporated into the operational system of the sensor network and adapted to system performance requirements to produce a mapping of the computation onto the system architecture This is called real time computational mapping and allows modification of system parameters according to real time performance measures This book deals with the development of a mathematical and modular software development framework to achieve computational sensor networks

Advanced Concepts, Methods, and Applications in Semantic Computing Daramola, Olawande,Moser, Thomas,2020-12-18 Semantic computing is critical for the development of semantic systems and applications that must utilize semantic analysis semantic description semantic interfaces and semantic integration of data and services to deliver their objectives Semantic computing has enormous capabilities to enhance the efficiency and throughput of systems that are based on key emerging concepts and technologies such as semantic web internet of things blockchain technology and knowledge graphs Thus research that expounds advanced concepts methods technologies and applications of semantic computing for solving challenges in real world domains is vital Advanced Concepts Methods and Applications in Semantic Computing is a scholarly reference book that provides a sound theoretical foundation for the application of semantic methods concepts and technologies for practical problem solving It is designed as a comprehensive and reliable resource on how semantic oriented approaches can be used to aid new emergent technologies and tackle real world problems Covering topics that include deep learning machine learning blockchain technology and semantic web services this book is ideal for professionals academicians researchers and students working in the field of semantic computing in various disciplines including but not limited to software engineering systems engineering knowledge engineering electronic commerce computer science and information technology

Online Informatics Control Automation Robotics International Book Review: Unveiling the Power of Words

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web jun 4 2019 the solubility of the solution is equal to the maximum concentration of the solute what is the solubility of potassium nitrate in 20 c water 3 experiment click reset and select sodium chloride with the temp still set to 20 c click ok add sodium chloride to the beaker until it starts piling up at the bottom
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